A.I.A. FILE No. 25-C

PAINTING • VARNISHING • ENAMELING

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PRATT & LAMBERT-INC.
ENGINEERING SPECIFICATION MANUAL

Water Pollution Control Plants
Water Treatment Plants
Municipal Swimming Pools
Chemical Plants
Power Plants and
Engineering Projects

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FOREWORD

This Engineering Manual has been prepared to assist the Engineer and Architect in writing specifications for WATER POLLUTION CONTROL PLANTS, WATER TREATMENT PLANTS, SALINE CONVERSION PLANTS, MUNICIPAL SWIMMING POOLS, CHEMICAL PLANTS, POWER PLANTS, INDUSTRIAL PLANTS, NUCLEAR RESEARCH CENTERS AND ATOMIC ENERGY INSTALLATIONS for which specific technical coatings have been designed.

Included in this manual are special resistance charts showing the chemical resistance of these coatings, exposure data and complete specifications for preparation and application of resistant, protective and decorative coatings.

All information contained herein is based upon sound procedures and practices, and includes the most recent developments in each of the fields covered. These data are the results of exhaustive research and testing procedures gained from over a century of experience in serving the professional Engineer and Architect.

The Architectural Service Department of Pratt & Lambert, Inc. offers, without obligation, additional practical and professional assistance at all stages of your work development. This includes:

- Personal consultation in writing complete painting specifications, color plans and specific technical data keyed to engineering projects of all types.

- Sample panels showing actual finishes, complete with specifications for reproducing the effects.

- Job site and technical assistance for unusual or problem surfaces requiring special treatment.

A division of this department is located at each of our offices. You are cordially invited to use this service.

PRATT & LAMBERT ARCHITECTURAL SERVICE DEPARTMENTS

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OF SURFACES

All surfaces commonly encountered in architectural finishing are divided into sections covering exterior and interior applications. Listings are alphabetical and cross-referenced. Recommended specifications are indicated for each of the different surfaces according to the type of finish.

Because today's paints are so specific in function, accurate specifications are of the greatest importance. It is unwise to allow heterogeneous combinations of brands and types of paint because of varying chemical and physical properties. For the greatest assurance of satisfactory results, specify Pratt & Lambert materials by brand name and color.

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SURFACE INDEX – EXTERIOR

Resistant and Protective Painting

SURFACE INDEX	RECOMMENDED SPECIFICATION SYSTEMS				
	Submerged	Excessive Moisture	Normal	High Temperature	Other
Bitumen Coated Metal			B		
Bridges, Metal			Q,R		
Butterfly Gates	D	D			
Catwalks		F	O		
Concrete	I,M	I,M	P		
Digester Covers (Topside)			N		
Digester Covers (Underside)	D	D			
Doors, Metal			A		
Effluent Collector Piping	D	D			
Effluent Collector Troughs	D	D			
Engines			A	G,H	
Equipment Above Tanks, Metal		J			
Flap Gates	D	D			
Floors, Concrete			P		
Galvanized Steel	F	F	E		
Gates, Flap	D	D			
Gates, Sluice	D	D			
Gutters, Metal			E		
Handrails, Metal			J		
Heat Exchangers				G,H	
Iron and Steel	D,F	D,F	A,N,Q,R	G,H	
Machinery			A		
Motors		J	A		
Mud Valves	D	D			
Pipes, Effluent Collector	D	D			
Pipes, Metal	F	F,J	A		
Pipes, Bitumen Coated			B		
Pipes, Canvas Covered			B		
Pneumatic Panels			A		
Pumps			A		
Potable Water Tanks, Metal	D,F	D,F			
Potable Water Tanks, Concrete	I,M	I,M			
Stairs			O,P		
Skirts	D	D			
Sluice Gates	D	D			
Smokestacks, Metal				G,H	
Storage Tanks	D	D			
Swimming Pools, Concrete	M				
Swimming Pools, Metal	F				
Tanks, Metal	D,F	D,F,J	Q,R		
Troughs, Effluent Collector	D	D			
Troughs, Wash Water, Metal	F	F			
Troughs, Wash Water, Concrete	I,M	I,M			
Valves, Mud	D	D			

SURFACE INDEX – INTERIOR

Resistant and Protective Painting

SURFACE INDEX	RECOMMENDED SPECIFICATION SYSTEMS				
	Submerged	Excessive Moisture	Normal	High Temperature	Other
Bitumen Coated Metal			B		
Bridges, Metal			Q,R		
Butterfly Gates	D	D			
Catwalks		F	O		
Concrete	I,M	I,K,M	P		
Digester Covers (Topside)			N		
Digester Covers (Underside)	D	D			C
Doors, Metal			A		
Effluent Collector Piping	D	D			
Effluent Collector Troughs	D	D			
Engines			A	G,H	
Fans, Metal		L			
Flap Gates	D	D			
Floors, Concrete			K,P		
Galvanized Steel	F	F	E		
Gates, Flap	D	D			
Gates, Sluice	D	D			
Gutters, Metal			E		
Handrails, Metal			A		
Heat Exchangers				G,H	
Iron and Steel	D,F	D,F,L	A,N,Q,R	G,H	C
Machinery			A		
Motors			A,L		
Mud Valves	D	D			
Pipes, Effluent Collector	D	D			
Pipes, Metal	F	F,L	A		
Pipes, Bitumen Coated			B		
Pipes, Canvas Covered			B		
Plate Work					C
Pneumatic Panels			A		
Pipes, Concrete	I	I			
Pumps			A		
Potable Water Tanks, Metal	D,F	D,F			
Potable Water Tanks, Concrete	I,M	I,M			
Sewage Wet Wells, Concrete	I	I			
Skirts	D	D			
Sluice Gates	D	D			
Smokestacks, Metal				G,H	
Stairs			K,O,P		
Storage Tanks, Metal	D	D,L			
Swimming Pools, Concrete	M				
Swimming Pools, Metal	F				

(MORE)

SURFACE INDEX – INTERIOR

Resistant and Protective Painting

SURFACE INDEX	RECOMMENDED SPECIFICATION SYSTEMS				
	Submerged	Excessive Moisture	Normal	High Temperature	Other
Tanks, Metal	D,F	D,F	Q,R		
Tanks, Concrete	I,M	I,M			
Trim, Metal		F	F		T
Trim, Wood					T
Troughs, Effluent Collector	D	D			
Troughs, Wash Water, Metal	F	F			
Truss,Work					C
Troughs, Wash Water, Concrete	I,M	I,M			
Valves, Mud	D	D			
Ventilating Ducts		L			
Walls, Asbestos Cement					T
Walls, Brick					U
Walls, Concrete					S,U
Walls, Masonry					S,U
Walls, Metal					T
Walls, Plaster					U

SURFACE INDEX – EXTERIOR

Decorative Painting

SURFACE INDEX	RECOMMENDED SPECIFICATION SYSTEMS			
	Paint	Enamel	Varnish	Other
Aluminum		GG		
Architectural Concrete				BB
Architectural Metal		CC		
Asbestos-Cement Surfaces	AA			
Brick	AA			
Catwalks		CC		
Clapboards	II		KKK-NNN	
Columns, Concrete	AA			BB
Concrete	AA			BB
Conductors, Metal		CC		
Doors, Metal		CC		
Doors, Wood		HH	III-NNN	
Fences, Metal		CC		
Fire Escapes, Metal		CC		
Galvanized Steel		FF		
Gutters, Metal		CC		
Handrails, Metal		CC		
Hydrants, Metal		CC		
Iron Work, Ornamental		CC		
Ladders, Metal		CC		
Louvers, Metal		CC		
Masonry Block Walls	AA			
Metal, Hot	DD,EE			
Metal, Hydrants		CC		
Metal, Roofs		CC		
Metal, Sash		CC		
Metal, Trim		CC		
Pipes		CC		
Roofs, Metal		CC		
Sash, Metal		CC		
Sash, Wood		HH		
Shingles, Asbestos-Cement	AA			
Siding, Clapboard	II		KKK-NNN	
Smokestacks	DD,EE			
Soffits, Masonry	AA			
Steel, Structural		CC		
Stucco	AA			
Trim, Metal		CC		
Trim, Wood	II	HH	III-NNN	
Walls, Concrete	AA			BB
Walls, Masonry Blocks	AA			
Wood Doors		HH	III-NNN	
Wood Siding	II		KKK-NNN	
Wood Trim	II	HH	III-NNN	

SURFACE INDEX – INTERIOR

Decorative Painting

SURFACE INDEX	RECOMMENDED SPECIFICATION SYSTEMS			
	Paint	Enamel	Varnish	Other
Acoustical Ceilings, Metal Pan	SS			
Aluminum		GG		
Asbestos-Cement	AA			NN
Brick	KK,LL,TT			OO
Cabinets, Metal		JJ,VV		
Cabinets, Wood		UU	CCC-LLL	
Ceilings, Concrete	KK,LL,TT			MM
Ceilings, Metal	RR,SS			
Ceilings, Plaster	PP,QQ			OO
Columns, Steel		JJ		
Concrete, Block	KK,LL,TT			MM
Concrete Precast	PP,QQ			
Concrete Walls	KK,LL,TT			MM,OO
Convectors		JJ		
Cranes		VV		
Dadoes				NN,OO
Doors, Fire		JJ		
Doors, Metal		JJ, VV		
Doors, Wood		UU	CCC-LLL	
Ducts, Ventilating	AAA,BBB	VV		
Elevator Cabs		JJ,VV		
Engines		VV		
Galvanized Steel		FF		
Handrails, Metal		JJ,VV		
Iron, Ornamental		JJ,VV		
Lockers, Metal		JJ,VV		
Masonry Block	KK,LL,TT			MM
Metal (Rigid)				NN
Metal Doors		JJ,VV		
Metal Sash		JJ		
Metal Trim		JJ		
Motors		VV		
Pipes	AAA,BBB	ZZ		
Pipes, Insulated	WW,XX	YY		
Plaster Walls & Ceilings	PP,QQ			OO
Pumps		VV		
Radiators		JJ		
Steel, Structural		JJ		
Tanks, Insulated		YY		
Tanks, Metal		VV		
Trim, Metal		JJ		
Trim, Wood		UU	CCC-LLL	
Walls, Brick	KK,LL,TT			OO
Walls, Concrete	KK,LL,TT			MM,OO
Walls, Masonry	KK,LL,TT			MM,OO
Wood Doors		UU	CCC-LLL	
Wood Paneling		UU	CCC-LLL	
Wood Sash		UU	CCC-LLL	
Wood Trim		UU	CCC-LLL	

GENERAL CONDITIONS

These General Conditions are written to be completely fair to both the general contractor and the subcontractor and still leave proper control with the engineer/architect and the owner.

SPECIFICATIONS FOR PAINTING AND FINISHING

GENERAL CONDITIONS AND SURFACE PREPARATION

a. The painting contractor shall read and be governed by the General Conditions contained in the complete specifications for this project.

b. The painting contractor agrees to save the owner, general contractor, engineer/architect harmless from all liens or damages to persons or property arising from or caused by his work; and to carry sufficient liability and property damage insurance on the job in an amount satisfactory to the engineer/architect and workman's compensation insurance for all workmen.

SCOPE OF WORK

a. The following specifications cover the complete painting and finishing of all surfaces throughout the interior and exterior of the building or structure except as otherwise specified.

b. The painting contractor shall supply all labor, materials, tools, ladders, scaffolding and other equipment necessary for the completion of this work according to the plans and specifications.

c. The painting contractor shall examine the specifications for the various other trades and shall familiarize himself with all their provisions regarding painting. All surfaces that are left unfinished by the requirements of other specifications, shall be painted or finished as a part of this contract.

d. Copper, bronze, chromium plate, nickel, stainless steel, aluminum, Monel metal, lead and lead coated copper shall not be painted or finished, except as otherwise specified.

e. The painting contractor shall be responsible for inspecting the work of others prior to the application of any paint or finishing material. If any surface to be finished cannot be put in proper condition for finishing by customary cleaning, sanding and puttying operations, the painting contractor shall immediately notify the general contractor or the engineer/architect in writing; or assume responsibility for and rectify any unsatisfactory finish resulting.

STORAGE

a. All materials used on the job shall be stored in a single place designated by the owner or engineer/architect. Such storage shall be kept neat and clean and all damage thereto or to its surroundings shall be made good by the painting contractor. All soiled or used rags, waste and trash must be removed from the building every night, and every precaution taken to avoid the danger of fire.

EXTRAS

a. The painting contractor shall not be entitled to payment in excess of the amount agreed upon in his contract for any extra work over and above that specified, unless authorized in writing by the engineer/architect or the architect's duly authorized representative.

MATERIALS

a. All materials used on the work shall be exactly as specified in brand and quality. No claim by the painting contractor as to the unsuitability or unavailability of any material specified, or his unwillingness to use same, or his inability to produce first class work with same, will be entertained unless such claims are made in writing and submitted with his bid. All paints, varnishes, enamels, stains, paste fillers and similar materials must be delivered in the original containers, with the seals unbroken and labels intact. Wherever the abbreviation "P&L" appears in the following detailed specifications it shall mean "Pratt & Lambert."

b. All materials shall be used in accordance with the manufacturer's direction. The actual surface area covered per gallon of paint for various types of surfaces shall be in accordance with the manufacturer's recommendations. Resistant and protective type coatings shall be applied in the film thickness and manner specified by the manufacturer.

c. All painting materials, such as shellac and mineral spirits, shall be pure and of highest quality and approved by the engineer/architect. They shall bear identifying labels on the containers.

d. A "base bid" shall be submitted, based on the terms of these specifications, including the use of materials of the specific brand, quality and color specified. If the contractor desires to use materials other than those specified, he may exercise the option of submitting an alternate bid and accompanying that bid with his request in writing for approval by the engineer/architect. He shall supply the name of the manufacturer and the specific brand name and number of each product he offers as a substitute; and shall state the amount to be added or deducted for such substitution. After the award, no substitution of materials for those mentioned in the accepted bid will be permitted. The contractor shall be notified within ten (10) days after the award of the contract to him, if such substitution is accepted. If not so notified, the contractor shall follow the specifications in accordance with the "base bid". All approved substitutions shall be incorporated in the contract by change order.

e. All colors shall be selected or approved by the engineer/architect. If required, panels for finish and color shall be prepared by the painting contractor in advance, with the materials as specified, for the approval of the engineer/architect.

WORKMANSHIP

a. The workmanship shall be of the best.

b. Where interior or exterior wood and metal are primed in the mill or shop as a part of the painting contract, the material shall in every case be that specified for such surfaces and shall be used in accordance with the manufacturer's directions for the first or priming coat.

c. Exterior painting shall not be done while the surface is damp, or during cold, rainy or frosty weather, or when the temperature is likely to drop to freezing. Avoid painting surfaces while they are exposed to hot sun.

d. Floors and adjacent surfaces as well as all surfaces to be painted shall be clean before painting.

e. To prevent bleeding or discoloration, all knots, pitch streaks and sappy spots shall be scraped and touched up before priming with P&L WP-578 Sealer on exterior wood. On interior wood use shellac for this purpose.

f. All necessary puttying of nail holes, cracks and other defects shall be done after the first coat, with putty of a color to match that of the finish. Putty shall be brought flush with the adjoining surface.

g. All metal surfaces shall be washed with mineral spirits to remove any dirt, oil and grease, before applying materials. Remove rust and scale by power wire brushing, scraping, flame cleaning or sanding clean before painting. Shop coats of paint that become badly weathered, worn or marred shall be cleaned and touched up by the painting contractor with the Pratt & Lambert primer specified.

   Iron and steel surfaces which have not been finished or primed in the shop and which will be subject to immersion, or which will be wet a large part of the time by spray or condensation, or which are designated in the Paint Schedule, shall be cleaned of all rust, millscale and other foreign matter by blast cleaning to gray metal. Blast cleaning shall be accomplished with abrasives of such particular shape, hardness and graduation as to effectively clean the metal and leave a roughened surface suitable for tenacious adhesion of subsequent coatings. As soon after cleaning as practicable, and prior to the formation of any corrosion from atmospheric moisture or other causes, all blast cleaned metal surfaces shall be cleaned of dust and coated with appropriate primer or paint as specified in the Painting Schedule. In no case shall a blast cleaned surface be left overnight prior to receiving the priming coat.

h. Galvanized steel surfaces shall be pretreated with P&L No. 46 Metal Pretreatment piror to painting as specified.

i. All exterior trim shall be back-primed before installation with P&L House Paint Exterior Primer.

j. All materials shall be applied under adequate illumination, evenly spread and smoothly flowed on without runs or sags.

k. All coats shall be thoroughly dry before applying succeeding coats.

l. All surfaces shall be approved for field painting by the engineer/architect in advance of painting. All work where a coat of material has been applied must be inspected and approved by the engineer/architect before the application of succeeding specified coat, otherwise no credit for the coat applied will be given, and the contractor shall then assume the responsibility and recoat the work in question. The painting contractor shall furnish the engineer/architect a report of each coat applied when completed for inspection and approval to comply with the above.

m. All interior trim shall be back-primed before installation, with P&L Interior Trim Primer as required.

   All woodwork to be finished with enamel or varnish shall be sanded smooth and the surface cleaned before proceeding with the application of the first coat.

n. Tops of all upper sash and bottoms of all lower sash shall be finished same as interior finish. Tops, bottoms and edges of doors shall be finished same as balance of doors after they are fitted by the carpenter.

o. The painting contractor shall secure color schedules for rooms before applying any paint or finish. All priming coats and undercoats shall be tinted to the approximate shade of the final coat.

p. Unless otherwise designated in the Project Specifications, all iron and steel surfaces finished or which have not been primed in the shop, which will be completely and continuously in normal exterior or interior atmospheric exposure, shall be cleaned in the field by means of solvents, power wire brushing, scraping, flame cleaning or by other approved methods which will remove all grease, dirt, loose millscale and other foreign substances. Cleaned surfaces shall be primed as soon as practicable after cleaning with the appropriate primer specified in the the Painting Schedule. Prior to applying subsequent coats, all welds and other damaged areas

of shop primed surfaces shall be cleaned and reprimed using the proper primer.

q. All suction spots or "hot spots" in plaster or cement after the application of the first coat, shall be touched up before applying the second coat.

r. All scratches, cracks and abrasions in plaster surfaces and openings adjoining trim shall be cut out as required, then filled with a spackling compound or approved patching plaster, flush with adjoining plaster surface, and when dry shall be sanded smooth and sealed before application of priming coat.

s. P&L Paste Wood Filler, applied on open grain wood, when "set" shall be wiped across the grain of the wood, then with the grain to secure a smooth, clean surface.

t. Surfaces to be stained shall be covered with a uniform coat of stain and wiped off if required.

u. Enamel or varnish finish applied to wood or metal shall be sanded with fine sandpaper and then dusted between coats to produce an even, smooth finish.

v. All closets and the interior of all cabinets shall be finished the same as adjoining rooms, unless otherwise specified. All other surfaces shall be finished with the same as nearest or adjoining surfaces unless otherwise specified or directed by the engineer/architect.

w. The insides of all drawers shall be given one coat of P&L "38" Pale Trim Varnish Gloss and one coat of P&L "38" Pale Trim Varnish Satin.

x. All lettering shall be executed in style and design as directed by the engineer/architect, by skilled and capable persons employed for this work.

y. All piping and equipment included in pipe lines inside of structures where exposed to view shall be identified in colors to be selected by the engineer/architect designating the service or material carried by the line. Colors shall be painted at all fittings. Equipment shall be banded at all connections. Where lines and equipment are insulated, colors shall be applied to insulation.

The following General Color Guide shall be used:

Dangerous Materials (Flammable) – P&L Effecto Enamel Canary Yellow
Dangerous Materials (Nonflammable) – P&L Effecto Enamel International Orange
Direction of Flow Arrows and Other (PSI) Designations - P&L Effecto Spray Enamel White Flat
Drain Water – P&L Effecto Enamel Mercury Gray
Fire Protection – P&L Effecto Enamel Grenadier Red
Protective Materials – P&L Effecto Enamel Postal Blue
Safe Material – P&L Effecto Enamel Evergreen
Sewage Sludges – P&L Effecto Enamel Congo Brown
Steam Pipes – P&L Noxide #105 Aluminum
Valuable Materials – P&L Effecto Enamel Lilac #8500

z. The painting contractor shall not only protect his work at all times but shall also protect all adjacent work and materials by suitable covering or other method during progress of his work. Upon completion of the work, he shall remove all paint and varnish spots from the floors, glass and other surfaces. He shall remove from the premises all rubbish and accumulated materials of whatever nature not caused by other trades and shall leave his part of the work in clean, orderly and acceptable condition.

SHOP COATS

Many construction materials are prime coated at the shop or mill. This is particularly common with materials such as structural metal, convectors, metal sash and trim, enclosures and certain interior woodwork. The effectiveness of the coating system is dependent upon the proper preparation of the surface and the prime coat used.

Where primers are required in Pratt & Lambert specifications, the products specified have been formulated for best results on the surface covered by the specification. These recommendations, if followed, will assure maximum adhesion and produce the proper foundation for the application of intermediate and finish coats.

Because of this, all materials applied at the mill or shop, either by the painting contractor or under the mill contract, should be as specified by the engineer/architect and subject to his inspection or approval.

SPECIFICATIONS

RESISTANT AND PROTECTIVE PAINTING

SURFACES		SPECIFICATIONS	SYSTEM
METAL Iron and Steel Exterior or Interior	Doors Engines Handrails Machinery Motors Pneumatic panels Piping Pumps	ALKYD ENAMEL FINISH – NOT SUBJECT TO EXCESSIVE MOISTURE All (designate surface and location) shall be given: 1 coat Pratt & Lambert Noxide 96 One Day Primer Red (1) 2 coats Pratt & Lambert Effecto Enamel	A
METAL Bitumen, coated Canvas, covered Exterior or Interior	Pipes	ALKYD ENAMEL FINISH – NOT SUBJECT TO EXCESSIVE MOISTURE All (designate surface and location) shall be given: 2 coats Pratt & Lambert Vapex Wall Primer 2 coats Pratt & Lambert Effecto Enamel	B
METAL Iron and Steel	Digester Cover Plate work Truss work	PRIMER – NOT IN CONTACT WITH LIQUIDS NOR VISIBLE AFTER COMPLETION OF CONTRACT All (designate surface and location) shall be given: 2 coats Pratt & Lambert Red Lead-Lead Chromate Primer No. 30503(1)	C
METAL Iron and Steel Exterior or Interior	Butterfly gates Digester covers (underside) Effluent collector piping troughs Flap gates Mud valves Skirts Sluice gates Storage tanks Tanks, potable water	PETROLEUM-EPOXY PAINT BLACK – SUBJECT TO EXCESSIVE MOISTURE OR SUBMERSION AND BLACK COLOR ACCEPTABLE All (designate surface and location) shall be given: 2 coats Pratt & Lambert Petroleum; Epoxy Paint Black, (2,3)	D
METAL Galvanized Steel Exterior or Interior	Gutters Walls	ALKYD ENAMEL FINISH – NOT SUBJECT TO EXCESSIVE MOISTURE All (designate surface and location) shall be given: 1 coat Pratt & Lambert No. 46 Metal Pretreatment 1 coat Pratt & Lambert Noxide 96 One Day Primer Red 2 coats Pratt & Lambert Effecto Enamel	E

Footnotes: *(1) Primer can be used as both shop and field primer.*
(2) Sandblast surface to gray metal before applying prime coat.
(3) Apply 2 coats by brush or spray to give a minimum of 6 mils total dry film thickness.

SYSTEM	SURFACES		SPECIFICATIONS
F	METAL Galvanized Steel Iron and Steel Exterior or Interior	Catwalks Floors Piping Swimming pools Tanks, potable water Tank surface units Trim Troughs, wash water	EPOXY FINISH – SUBJECT TO EXCESSIVE MOISTURE AND GREASE OR SUBMERSION AND COLORED COATINGS REQUIRED All (designate surface and location) shall be given: 1 coat Pratt & Lambert Palgard Metal Primer (1,4,7) 2 coats Pratt & Lambert Palgard (Epoxy Coating)
G	METAL Iron and Steel Exterior or Interior	Engines Heat Exchangers Smokestacks	ALUMINUM FINISH – SUBJECT TO TEMPERATURES UP TO 500°F. All (designate surface and location) shall be given: 2 coats Pratt & Lambert Heat Resistant Aluminum Paint No. 7227 (21)
H	METAL Iron and Steel Exterior or Interior	Engines Exhausts Heat exchangers Smokestacks	ALUMINUM FINISH – SUBJECT TO TEMPERATURES OF 500°F. TO 1000°F. All (designate surface and location) shall be given: 2 coats Pratt & Lambert High Heat Resistant Aluminum Paint No. 31483 (21)
I	MASONRY Concrete Exterior or Interior	Pipes Sewage wet wells Storage tanks Tanks, potable water Troughs, wash water.	PETROLEUM-EPOXY PAINT BLACK SUBJECT TO EXCESSIVE MOISTURE OR SUBMERSION AND BLACK COLOR ACCEPTABLE. All (designate surface and location) shall be given: 2 coats Pratt & Lambert Petroleum – Epoxy Paint Black (3,6)
J	METAL Iron and Steel Exterior	Equipment above Tanks Handrails Motors Piping Tanks	VINYL FINISH – SUBJECT TO EXCESSIVE MOISTURE, BUT NOT SUBMERGED All (designate surface and location) shall be given: 1 coat Pratt & Lambert No. 46 Metal Pretreatment (22) 1 coat Pratt & Lambert Vinyl Primer No. 104-132 2 coats Pratt & Lambert Vinyl Resistant Coating

Footnotes: *(1) Primer can be used as both shop and field primer.*
(3) Apply 2 coats by brush or spray to give a minimum of 6 mils total dry film thickness.
(4) Iron and steel (ungalvanized) – Sandblast to gray metal, before applying prime coat. Contrasting colors of Palgard (e.g. Silver Gray and Nickel Gray) must be used as intermediate and finish coats to insure adequate coverage of preceding coat.
(6) Age all poured concrete surfaces at least 90 days before applying paint. All surfaces must be free of dust, dirt, form oil and other foreign matter. Do not use wash or grout coats and waterproofers on surfaces to be painted.
(7) Galvanized Steel – Pretreat with Pratt & Lambert No. 46 Metal Pretreatment before applying prime coat.
(21) Sandblast surface to gray metal before painting. Do not use primer as heat resistance will be affected.
(22) Sandblast to gray metal or power clean to bare metal.

SURFACES		SPECIFICATIONS	SYSTEM
MASONRY Concrete Interior	Floors Walls Stairs	CHLORINATED RUBBER FINISH. SUBJECT TO EXCESSIVE MOISTURE, BUT NOT SUBMERGED. All (designate surface and location) shall be given: 2 coats Pratt & Lambert Chlorinated Rubber Finish (6) (18)	K
METAL Iron and Steel Interior	Fans Motors Pipes Storage tanks Ventilating ducts	CHLORINATED RUBBER FINISH. SUBJECT TO EXCESSIVE MOISTURE BUT NOT SUBMERGED. All (designate surface and location) shall be given: 1 coat Pratt & Lambert Chlorinated Rubber Primer 2 coats Pratt & Lambert Chlorinated Rubber Finish	L
MASONRY Concrete Exterior or Interior	Swimming pools Tanks, potable water Troughs, wash water Walls	EPOXY FINISH – SUBJECT TO EXCESSIVE MOISTURE OR SUBMERSION AND COLORED COATING REQUIRED All (designate surface and location) shall be given: 3 coats Pratt & Lambert Palgard (Epoxy Coating) (5, 6)	M
METAL Steel Exterior or Interior	Digester covers (topside)	ALUMINUM FINISH – NOT SUBJECT TO EXCESSIVE MOISTURE All (designate surface and location) shall be given: 1 coat Pratt & Lambert Noxide 96 One Day Primer Red (1) 2 coats Pratt & Lambert Noxide 105 Aluminum Paint	N
METAL or WOOD Exterior or Interior	Catwalks Floors Stairs	ALKYD FLOOR ENAMEL – NOT SUBJECT TO EXCESSIVE MOISTURE All (designate floor and location) shall be given: 2 coats Pratt & Lambert "61" Floor & Porch Enamel (17, 18)	O

Footnotes: (1) Primer can be used as both shop and field primer.
(5) Contrasting colors of Palgard (e.g. Silver Gray and Nickel Gray) must be used as intermediate and finish coats to insure adequate coverage of preceding coat.
(6) Age all poured concrete surfaces at least 90 days before applying paint. All surfaces must be free of dust, dirt, form oil and other foreign matter. Do not use wash or grout coats and waterproofers on surfaces to be painted.
(17) Metal surfaces not shop primed shall be thoroughly cleaned and given one coat Pratt & Lambert Noxide 96 One Day Primer Red prior to finish coats.
(18) Pratt & Lambert Non-Slip Additive may be added to the finish coat to reduce slipping hazard when wet.

SYSTEM	SURFACES		SPECIFICATIONS
P	MASONRY Concrete Exterior or Interior	Floors Stairs	EPOXY FINISH – NOT SUBJECT TO EXCESSIVE MOISTURE All (designate surface and location) shall be given: 2 coats Pratt & Lambert Palgard (Epoxy Coating) (6, 18)
Q	METAL Iron and Steel Exterior or Interior	Bridges Water tanks	DRY FALL OUT ALUMINUM FINISH – NOT SUBJECT TO EXCESSIVE MOISTURE All (designate surface and location) shall be given: 1 coat Pratt & Lambert Noxide 96 One Day Primer Red (1) 2 coats Pratt & Lambert Safety Spray Aluminum No. 34707 (13)
R	METAL Iron and Steel Exterior or Interior	Bridges Water tanks	ALUMINUM FINISH – NOT SUBJECT TO EXCESSIVE MOISTURE All (designate surface and location) shall be given: 1 coat Pratt & Lambert Noxide 96 One Day Primer (1) 2 coats Pratt & Lambert Noxide 105 Aluminum Paint
S	MASONRY Aggregate or Concrete Block Interior	Walls	EPOXY HEAVY DUTY FINISH All (designate surface and location) shall be given: 1 coat Pratt & Lambert Vitra-Tile Block Filler (19) 1 coat Pratt & Lambert Vitra-Tile Epoxy (20)
T	METAL, RIGID Aluminum Iron and Steel ASBESTOS CEMENT WOOD Interior	Sash Trim Walls	EPOXY HEAVY DUTY FINISH All (designate surface and location) shall be given: 2 coats Pratt & Lambert Vitra-Tile Epoxy
U	MASONRY Brick Concrete PLASTER Interior	Walls	EPOXY HEAVY DUTY FINISH All (designate surface and location) shall be given: 1 coat Pratt & Lambert Vitra-Tile Wall Primer 1 coat Pratt & Lambert Vitra-Tile Epoxy (20)

Footnotes: *(1) Primer can be used as both shop and field primer.*
(6) Age all poured concrete surfaces at least 90 days before applying paint. All surfaces must be free of dust, dirt, form oil and other foreign matter. Do not use wash or grout coats and waterproofers on surfaces to be painted.
(13) Pratt & Lambert Safety Spray Aluminum No. 34707 is a dry fall out type of aluminum paint to be applied by spray only. Noxide 96 One Day Primer Red is conventional type and not a dry fall out type or primer.
(18) Pratt & Lambert Non-Slip Additive may be added to the finish coat to reduce slipping hazard when wet.
(19) For unusually porous surfaces brush the first coat and apply an additional coat of Vitra-Tile Epoxy.
(20) For areas subject to unusual moisture, or where superior filling is required, apply an additional coat of Vitra-Tile Epoxy.

SPECIFICATIONS

DECORATIVE PAINTING

SURFACES		SPECIFICATIONS	SYSTEM
MASONRY Asbestos-Cement Brick Concrete Concrete Block Stucco Exterior or Interior	Foundations Soffits Walls	LATEX FLAT FINISH – All (designate surface and location) shall be given: 2 coats Pratt & Lambert Vapex Masonry Paint	AA
MASONRY Architectural Concrete Exterior	Columns Walls	EPOXY FINISH – All (designate surface and location) shall be given: 2 coats Pratt & Lambert Palgard (Epoxy Coating) (6)	BB
METAL Galvanized Steel Iron and Steel Exterior	Conductors Doors Gutters Handrails Hydrants Ladders Louvers Sash Structural steel Trim	ALKYD ENAMEL FINISH – All (designate surface and location) shall be given: 1 coat Pratt & Lambert Noxide 96 One Day Primer Red (1, 7) 2 coats Pratt & Lambert Effecto Enamel	CC
METAL Iron and Steel Exterior	Exhaust pipes Hot metal Smokestacks	BLACK FINISH – SUBJECT TO TEMPERATURES UP TO 500°F. All (designate surface and location) shall be given: 2 coats Pratt & Lambert Noxide 98 Smokestack Black (21)	DD
METAL Iron and Steel Exterior	Exhaust pipes Hot metal Smokestacks	ALUMINUM FINISH – SUBJECT TO TEMPERATURES UP TO 500°F. All (designate surface and location) shall be given: 2 coats Pratt & Lambert Heat Resistant Aluminum No. 7227 (21)	EE

Footnotes: (1) Primer can be used as both shop and field primer.

(6) Age all poured concrete surfaces at least 90 days before applying paint. All surfaces must be free of dust, dirt, form oil and other foreign matter. Do not use wash or grout coats and waterproofers on surfaces to be painted.

(7) Galvanized Steel – Pretreat with Pratt & Lambert No. 46 Metal Pretreatment before applying prime coat.

(21) Sandblast surface to gray metal before painting. Do not use primer as heat resistance will be affected.

SYSTEM	SURFACES		SPECIFICATIONS
FF	METAL Galvanized Steel Exterior	Ventilation work	ALKYD ENAMEL FINISH All (designate surface and location) shall be given: 1 coat Pratt & Lambert No. 46 Metal Pretreatment 1 coat Pratt & Lambert Noxide 96 One Day Primer Red 2 coats Pratt & Lambert Effecto Enamel
GG	METAL Aluminum Exterior or Interior	Ventilation work	ALKYD ENAMEL FINISH All (designate surface and location) shall be given: 1 coat Pratt & Lambert No. 25 Zinc Chromate Primer (1) 2 coats Pratt & Lambert Effecto Enamel
HH	WOOD Exterior	Doors Sash Trim	ALKYD ENAMEL FINISH All (designate surface and location) shall be given: 1 coat Pratt & Lambert Effecto Primer (9) 2 coats Pratt & Lambert Effecto Enamel
II	WOOD Exterior	Sash Siding Trim	HOUSE PAINT All (designate surface and location) shall be given: 1 coat Pratt & Lambert House Paint 305 Exterior Primer (9) 2 coats Pratt & Lambert House Paint (11)
JJ	METAL Galvanized Steel Iron and Steel Interior	Columns Door frames Doors Handrails Ornamental iron Radiators Structural steel	ALKYD EGGSHELL FINISH All (designate surface and location) shall be given: 1 coat Pratt & Lambert Interior Trim Primer (7) 1 coat Pratt & Lambert Vitralite Enamel Undercoating 1 coat Pratt & Lambert Vitralite Enamel Eggshell

Footnotes: (1) Primer can be used as both shop and field primer.
(7) Galvanized Steel – Pretreat with Pratt & Lambert No. 46 Metal Pretreatment before applying prime coat.
(9) Prime all edges and back of wood sash, siding and trim with Pratt & Lambert House Paint 305 Exterior Primer.
(11) Paints containing lead pigments are not to be used as 2nd and 3rd coats.

SURFACES		SPECIFICATIONS	SYSTEM
MASONRY Aggregate or Concrete Block Interior	Ceilings Walls	ALKYD STIPPLED EGGSHELL FINISH All (designate surface and location) shall be given: 1 coat Pratt & Lambert Primafil 1 coat Pratt & Lambert Lyt-all Stippling Eggshell, stippled.	KK
MASONRY Aggregate or Concrete Block Interior	Ceilings Walls	ALKYD SMOOTH FLAT FINISH All (designate surface and location) shall be given 1 coat Pratt & Lambert Primafil 1 coat Pratt & Lambert New Lyt-all Flowing Flat	LL
MASONRY Aggregate or Concrete Block Interior	Walls	EPOXY HEAVY DUTY FINISH All (designate surface and location) shall be given: 1 coat Pratt & Lambert Vitra-Tile Block Filler (19) 1 coat Pratt & Lambert Vitra-Tile Epoxy (20)	MM
METAL, RIGID Aluminum Iron and Steel ASBESTOS CEMENT WOOD Interior	Sash Trim Walls	EPOXY HEAVY DUTY FINISH All (designate surface and location) shall be given: 2 coats Pratt & Lambert Vitra-Tile Epoxy	NN
MASONRY Brick Concrete PLASTER Interior	Walls	EPOXY HEAVY DUTY FINISH All (designate surface and location) shall be given 1 coat Pratt & Lambert Vitra-Tile Wall Primer 1 coat Pratt & Lambert Vitra-Tile Epoxy (20)	OO

Footnotes: (19) For unusually porous surfaces brush the first coat and apply an additional coat of Vitra-Tile Epoxy.

(20) For areas subject to unusual moisture, or where superior filling is required, apply an additional coat of Vitra-Tile Epoxy.

SYSTEM	SURFACES		SPECIFICATIONS
PP	MASONRY Plaster Precast Concrete Interior	Ceilings Walls	ALKYD STIPPLED EGGSHELL FINISH All (designate surface and location) shall be given: 1 coat Pratt & Lambert Vapex Wall Primer 1 coat Pratt & Lambert Lyt-all Double Duty Primer 1 coat Pratt & Lambert Lyt-all Stippling Eggshell, stippled.
QQ	MASONRY Plaster Precast Concrete Interior	Ceilings Walls	ALKYD SMOOTH FLAT FINISH All (designate surface and location) shall be given: 1 coat Pratt & Lambert Vapex Wall Primer 1 coat Pratt & Lambert Lyt-all Double Duty Primer 1 coat Pratt & Lambert New Lyt-all Flowing Flat
RR	METAL Galvanized Steel Iron and Steel Interior	Ceilings	ALKYD STIPPLED EGGSHELL FINISH All (designate surface and location) shall be given: 1 coat Pratt & Lambert Interior Trim Primer 1 coat Pratt & Lambert Lyt-all Double Duty Primer 1 coat Pratt & Lambert Lyt-all Stippling Eggshell, stippled.
SS	METAL Galvanized Steel Iron and Steel Interior	Ceilings	ALKYD SMOOTH FLAT FINISH All (designate surface and location) shall be given: 1 coat Pratt & Lambert Interior Trim Primer 1 coat Pratt & Lambert Lyt-all Double Duty Primer 1 coat Pratt & Lambert New Lyt-all Flowing Flat
TT	MASONRY Concrete Interior	Basement walls Tunnel ceilings Tunnel walls	LATEX FLAT FINISH All (designate surface and location) shall be given: 2 coats Pratt & Lambert Vapex Masonry Paint (15)

Footnotes: (15) If metal piping in tunnels is to be same color as walls, use two coats Vapex Masonry Paint over Pratt & Lambert No. 25 Zinc Chromate Primer.

SURFACES		SPECIFICATIONS	SYSTEM
WOOD Interior	Door frames Doors Paneling Sash Trim	ALKYD EGGSHELL FINISH All (designate surface and location) shall be given: 1 coat Pratt & Lambert Interior Trim Primer 1 coat Pratt & Lambert Vitralite Enamel Undercoating 1 coat Pratt & Lambert Vitralite Enamel Eggshell	UU
METAL Iron and Steel Interior	Accessories Cranes Engines Motors Process equipment Pumps Switchgear Tanks	ALKYD ENAMEL FINISH – NOT SUBJECT TO EXCESSIVE MOISTURE All (designate surface and location) shall be given: 1 coat Pratt & Lambert Noxide 96 One Day Primer Red (1) 2 coats Pratt & Lambert Effecto Enamel	VV
INSULATION MATERIAL Asbestos Canvas Interior	Pipes	ALKYD STIPPLED EGGSHELL FINISH All (designate surface and location) shall be given: 1 coat Pratt & Lambert Vapex Wall Primer 1 coat Pratt & Lambert Lyt-all Double Duty Primer 1 coat Pratt & Lambert Lyt-all Stippling Eggshell, stippled.	WW
INSULATION MATERIAL Asbestos Canvas Interior	Pipes	ALKYD SMOOTH FLAT FINISH All (designate surface and location) shall be given: 1 coat Pratt & Lambert Vapex Wall Primer 1 coat Pratt & Lambert Lyt-all Double Duty Primer 1 coat Pratt & Lambert New Lyt-all Flowing Flat	XX
INSULATION MATERIAL Asbestos Canvas Interior	Boilers Pipes Tanks	ALKYD ENAMEL FINISH All (designate surface and location) 1 coat Pratt & Lambert Vapex Wall Primer 2 coats Pratt & Lambert Effecto Enamel	YY

Footnotes: (1) Primer can be used as both shop and field primer.

SYSTEM	SURFACES		SPECIFICATIONS
ZZ	METAL Galvanized Steel Iron and Steel Interior	Pipes (identification)	ALKYD ENAMEL FINISH All (designate surface and location) shall be given: 1 coat Pratt & Lambert Noxide 96 One Day Primer (1, 7) 2 coats Pratt & Lambert Effecto Enamel
AAA	METAL Galvanized Steel Iron and Steel Interior	Ducts Pipes	ALKYD STIPPLED EGGSHELL FINISH All (designate surface and location) shall be given: 1 coat Pratt & Lambert Interior Trim Primer (7) 1 coat Pratt & Lambert Lyt-all Double Duty Primer 1 coat Pratt & Lambert Lyt-all Stippling Eggshell, stippled
BBB	METAL Galvanized Steel Iron and Steel Interior	Ducts Pipes	ALKYD SMOOTH FLAT FINISH All (designate surface and location) shall be given: 1 coat Pratt & Lambert Interior Trim Primer (7) 1 coat Pratt & Lambert Lyt-all Double Duty Primer 1 coat Pratt & Lambert New Lyt-all Flowing Flat
CCC	WOOD Open grain Interior	Cabinets Doors Paneling Trim	FILLER, STAIN, GLOSS VARNISH All (designate surface and location) shall be given: 1 coat Pratt & Lambert Paste Filler 1 coat Pratt & Lambert Tonetic Wood Stain (12) 3 coats Pratt & Lambert "38" Pale Trim Varnish Gloss
DDD	WOOD Open grain Interior	Cabinets Doors Paneling Trim	FILLER, STAIN, SATIN VARNISH All (designate surface and location) shall be given: 1 coat Pratt & Lambert Paste Filler 1 coat Pratt & Lambert Tonetic Wood Stain (12) 2 coats Pratt & Lambert "38" Pale Trim Varnish Gloss 1 coat Pratt & Lambert "38" Pale Trim Varnish Satin

Footnotes: (1) Primer can be used as both shop and field primer.
(7) Galvanized Steel – Pretreat with Pratt & Lambert No. 46 Metal Pretreatment before applying prime coat.
(12) Omit stain for a natural finish.

SURFACES		SPECIFICATIONS	SYSTEM
WOOD Open Grain Interior	Cabinets Doors Paneling Trim	FILLER, STAIN, DULL VARNISH All (designate surface and location) shall be given: 1 coat Pratt & Lambert Paste Filler 1 coat Pratt & Lambert Tonetic Wood Stain (12) 2 coats Pratt & Lambert "38" Pale Trim Varnish Gloss 1 coat Pratt & Lambert "38" Pale Trim Varnish Dull	EEE
WOOD Close grain Interior	Cabinets Doors Paneling Trim	STAIN, GLOSS VARNISH All (designate surface and location) shall be given: 1 coat Pratt & Lambert Tonetic Wood Stain (12) 3 coats Pratt & Lambert "38" Pale Trim Varnish Gloss	FFF
WOOD Close grain Interior	Cabinets Doors Paneling Trim	STAIN, SATIN VARNISH All (designate surface and location) shall be given: 1 coat Pratt & Lambert Tonetic Wood Stain (12) 2 coats Pratt & Lambert "38" Pale Trim Varnish Gloss 1 coat Pratt & Lambert "38" Pale Trim Varnish Stain	GGG
WOOD Close grain Interior	Cabinets Doors Paneling Trim	STAIN, DULL VARNISH All (designate surface and location) shall be given: 1 coat Pratt & Lambert Tonetic Wood Stain (12) 2 coats Pratt & Lambert "38" Pale Trim Varnish Gloss 1 coat Pratt & Lambert "38" Pale Trim Varnish Dull	HHH
WOOD Open grain Exterior or Interior	Doors Floors Trim	FILLER-SEALER, STAIN, URETHANE FINISH-GLOSS All (designate surface and location) shall be given: 1 coat Pratt & Lambert Varmor Filler-Sealer 1 coat Pratt & Lambert Tonetic Wood Stain (12) 3 coats Pratt & Lambert Varmor Gloss	III

Footnote: (12) Omit stain for a natural finish.

SYSTEM	SURFACES		SPECIFICATIONS
JJJ	WOOD Open grain Exterior or Interior	Doors Floors Trim	FILLER-SEALER, STAIN, URETHANE FINISH-SATIN All (designate surface and location) shall be given: 1 coat Pratt & Lambert Varmor Filler-Sealer 1 coat Pratt & Lambert Tonetic Wood Stain (12) 2 coats Pratt & Lambert Varmor Gloss 1 coat Pratt & Lambert Varmor Satin
KKK	WOOD Close grain Exterior or Interior	Doors Floors Siding Trim	STAIN, URETHANE FINISH-GLOSS All (designate surface and location) shall be given: 1 coat Pratt & Lambert Tonetic Wood Stain (12) 3 coats Pratt & Lambert Varmor Gloss
LLL	WOOD Close grain Exterior or Interior	Doors Floors Siding Trim	STAIN, URETHANE FINISH-SATIN All (designate surface and location) shall be given: 1 coat Pratt & Lambert Tonetic Wood Stain (12) 2 coats Pratt & Lambert Varmor Gloss 1 coat Pratt & Lambert Varmor Satin
MMM	WOOD Open Grain Exterior	Doors Trim	UVA SPAR VARNISH All (designate surface and location) shall be given: 1 coat Pratt & Lambert Paste Filler 1 coat Pratt & Lambert Tonetic Wood Stain (12) 3 coats Pratt & Lambert Vitralite UVA Spar Varnish
NNN	WOOD Close grain Exterior	Doors Siding Trim	UVA SPAR VARNISH All (designate surface and location) shall be given: 1 coat Pratt & Lambert Tonetic Wood Stain (12) 3 coats Pratt & Lambert Vitralite UVA Spar Varnish.

Footnote: (12) Omit stain for a natural finish.

PRATT & LAMBERT

PRODUCTS AND DESCRIPTIONS

All product descriptions in this section follow a uniformly simple arrangement that makes pertinent information easy to locate. The descriptions provide data in this order:

NAME of the product and the type of finish.

USES for which the product is primarily intended.

Secondary uses, if any.

COLORS available, luster and texture.

Tinting practices and, where applicable, the inclusion of the product in the Pratt & Lambert System of Calibrated Colors®.

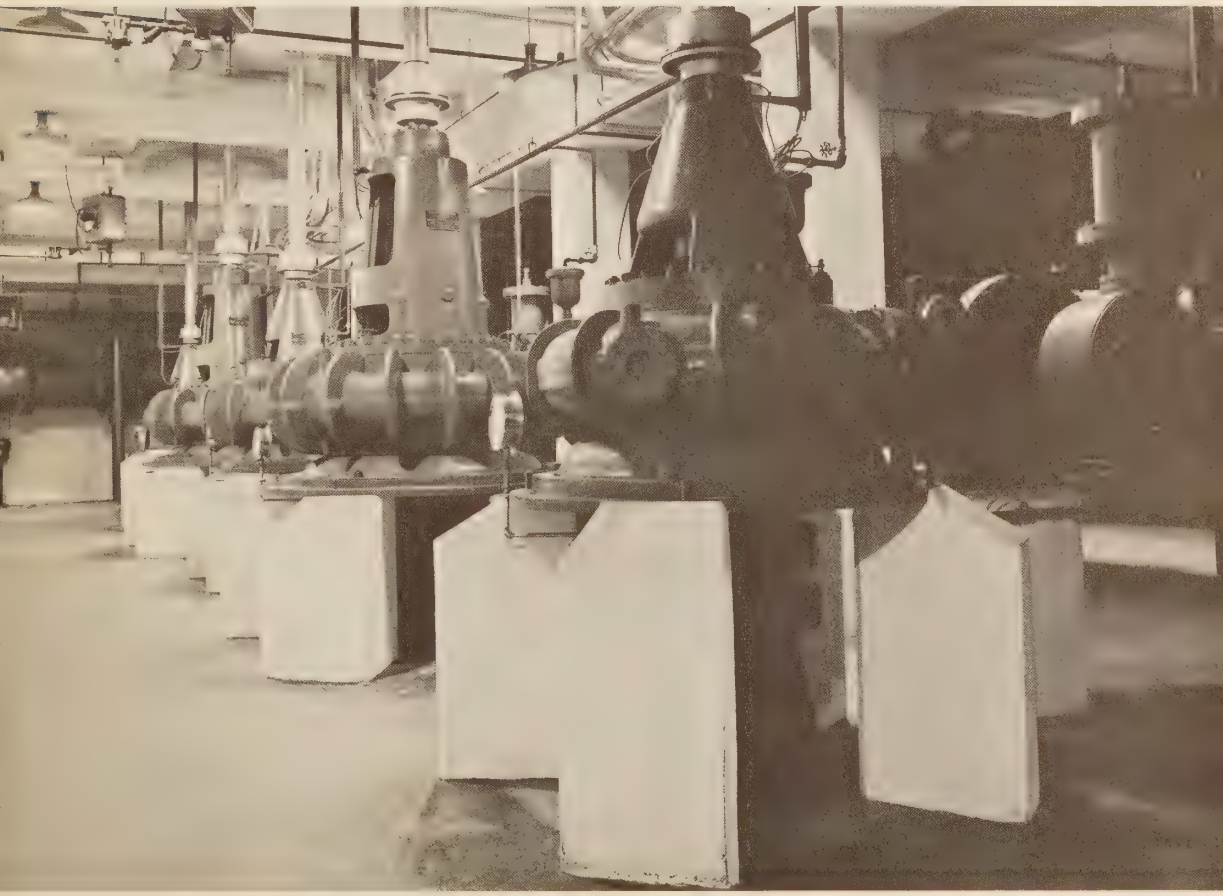
PROPERTIES of the product in application and when dry.

Performance, handling and serviceability.

When and where the product can be used most advantageously.

PRECAUTIONS or limitations.

In instances where the precautions or limitations are contrary to usual practices or not reasonably obvious.



CHLORINATED RUBBER FINISH

A fast drying chlorinated rubber base coating suitable for use on interior masonry and metal surfaces. Packaged ready-mixed. Dries by solvent evaporation. Its good chemical resistance makes it an ideal paint for chemical plants. More resistant to concentrated lactic acid (85%) than the epoxy coating. Easier to apply by brush in some areas than the spray type vinyl coatings. Generally more acid than alkali resistant. It can be used on storage tanks, ventilating ducts and fans, structural steel and pipes.

EFFECTO ENAMEL

A fast drying gloss enamel to be used on exterior or interior metal and wood surfaces. Effecto Enamel provides good protection to iron and steel, (galvanized or ungalvanized), pumps, motors, engines, handrails, light standards, piping, machinery and other equipment. Also recommended for pipeline identification. Other than Black-Flat, colors have exceptional gloss and color retention. Available in a wide range of colors

EFFECTO ENAMEL PRIMER WHITE

A white primer for use under Effecto Enamel on new exterior or interior wood or metal surfaces. Has excellent adhesion and "holding out" properties.

P&L HEAT RESISTANT ALUMINUM PAINT NO. 7227

A ready-mixed aluminum paint for exterior or interior metal surfaces. Requires no mixing of powder and liquid from separate containers. Just stir and use. It has excellent leafing properties. Use on metal surfaces exposed to temperatures not in excess of 500° F.

P&L HIGH HEAT RESISTANT ALUMINUM PAINT NO. 31483

A ready-mixed silicone aluminum paint for exterior or interior metal surfaces. Requires no mixing of powder and liquid from separate containers. Just stir and use. It has excellent leafing properties. It dries satisfactorily at room temperature, but it does not cure until the surface on which it is applied reaches 200° F. and remains at 200° F. for an hour. Use on metal surfaces exposed to temperatures higher than 500° F. but not in excess of 1000° F.

P&L HOUSE PAINT

A complete line of exterior coatings for use on wood and metal. Available in a wide range of colors. 300 Outside White, a self-cleaning white, should not be tinted. 303 Chalk Resistant White, a slow chalking paint, is especially suitable for use above brick and masonry. 317 Mildew and Fume Resistant White should be used where mildew is a problem or sulfur fumes are present.

300 Outside White, 303 Chalk Resistant White, and 317 Mildew and Fume Resistant White are lead pigment free.

House paint white and tints are made with an oil vehicle. House paint deep colors are made with an alkyd vehicle.

P&L HOUSE PAINT 305 EXTERIOR PRIMER

An oil base primer for use under P&L House Paint on exterior wood siding, sash and trim. Also for back priming. It uniformly seals wood of varying porosity to give the necessary hold out of succeeding coats. Contains lead pigment which is necessary to minimize checking, cracking and scaling of the paint system.

P&L INTERIOR TRIM PRIMER

Heavily pigmented white primer for interior wood trim and bare metal, including aluminum. Flat finish. Forms close bond, seals perfectly, hides very well. Moderate drying time. Good leveling qualities. Dries free of brush marks to non-porous, smooth surface which holds out succeeding coats of Vitralite Enamel Undercoating and Vitralite Enamel. Sands easily. White only. Tint to approximate shade of finish coat.

LYT-ALL DOUBLE DUTY PRIMER

Heavy duty primer and sealer for interior walls and ceilings of smooth, sand-finished or textured plaster. Odorless type. Combines good hiding power with remarkable sealing qualities. Smooth leveling without runs or sags. Relatively thick coats may be used. Apply with brush, roller or spray. White only. Tint to approximate shade of finish coat.

LYT-ALL STIPPLING EGGSHELL

For use on interior walls and ceilings of plaster, masonry, metal, gypsum wallboard, pressed wood and pulp boards, asbestos-cement and canvas. A distinctive alkyd-base product with extreme durability and color permanency. Has no objectionable odor. It can be applied and stippled in one operation with a roller applicator. Produces a moderate surface texture, tending to minimize unevenness of surface and minor defects. Ideal for economical application and maintenance. It does not contain coarse additives. Its super tough film withstands repeated washings.

NEW LYT-ALL FLOWING FLAT

Alkyd base. Flat finish for interior walls and ceilings of plaster, masonry, metal, gypsum wallboard, pressed wood and pulp boards, asbestos-cement and canvas. Excellent flowing, hiding and coverage. Fade resistant colors, excellent washability. Velvet smooth finish, free of brush marks. Brush, roller or spray application. Matching colors available in Vitralite Enamel Eggshell and Lyt-all Stippling Eggshell.

P&L NO. 25 ZINC CHROMATE PRIMER

A prime coat for interior and exterior aluminum and other metals including structural members, ducts, sash and trim. Smooth leveling and rapid drying. Contains a substantial amount of zinc chromate, a rust inhibitive pigment. Apply by brush or spray. Light yellow color.

P&L NO. 46 METAL PRETREATMENT

A two-package acid-bound resinous metal pretreatment. Promotes adhesion of primers to bare metal. Especially formulated for use on new clean galvanized steel. Must be used under Vinyl Primer No. 104-132 in all specifications.

The two-package system consists of a pigmented resin solution (P&L No. 46 Metal Pretreatment), and an acid component (P&L No. 46 Metal Pretreatment Activator). Can be brushed or sprayed. Produces an adherent, semi-transparent green film. Recoat after drying 30 minutes - must be recoated within 8 hours. Prepare only enough material to use the same day (Not in excess of 12 hours).

No. 46 Metal Treatment is not a primer and should not be substituted for any recommended prime coat.

Application

Brush or Spray the following mixture:

P&L No. 46 Metal Pretreatment, -
4 parts by volume.
P&L No. 46 Metal Pretreatment Activator -
1 part by volume.
Alcohol - 1 or more parts by volume as needed.

*Denatured Alcohol, isopropyl alcohol, or butanol. Butanol is the preferred reducer if the material is to be brushed. Butanol evaporates more slowly than the other two alcohols.

NOXIDE 96 ONE DAY PRIMER RED

An iron oxide primer, for use on exterior and interior metal, such as machinery, motors, pipes, etc. Contains a rust inhibitive pigment, basic lead silico chromate, with the necessary additives to give proper wetting of and adhesion to the metal. Offers a good foundation coat for both oil base and alkyd topcoats.

NOXIDE 98 SMOKESTACK BLACK

An asphaltum coating for painting smokestacks and other surfaces where the temperatures do not go above 500° D. Stays put on sharp corners and around bolt heads. It is always applied to the cold, bare metal. When the stack is later subjected to heat, the paint is virtually baked on the metal.

NOXIDE 105 ALUMINUM

A ready-mixed aluminum paint for exterior or interior masonry, metal and wood surfaces. Requires no mixing of powder and liquid from separate containers. Just stir and use. It has excellent leafing properties.

PALGARD

Catalyzed epoxy finishes with excellent adhesion to exterior and interior metal, concrete and other masonry surfaces, and which have good chemical and water resistance. Especially developed for surfaces which are submerged or exposed to excessive moisture, such as water tanks, piping, sluice gates, valves, etc.

Palgard Metal Primer and Finish Coats are two-package materials. One package contains the pigmented primer or finish and the other the clear activator (Palgard Activator). The two components must be job mixed, by mixing the contents of equal size containers, then allowed to stand one hour (the induction period) before use, after which the mixture remains usable for 12 hours (the pot life). If applied without the proper induction period, the finish may crawl or dry with a greasy film and may be less durable.

Where chemical resistance is a prime factor, specify only factory made colors.

Epoxy coatings have good durability but will chalk on exterior exposure. Chalking will cause a change in color but will not degrade the durability and resistance properties of the coating.

Note: The epoxy coatings attain their ultimate hardness by curing -- a chemical reaction which is triggered by mixing the one package which contains the coating with the other which contains the activator. Like all chemical reactions, temperature and the proper measurement of ingredients are vital to obtain a coating which will give satisfactory durability and performance. High temperatures accelerate the reaction, while low temperatures slow the curing action of the film. The induction period of one hour and pot life of 12 hours apply to materials at room temperatures (70° to 77°F.) and to room temperature storage conditions. Higher temperatures will accelerate these changes; lower temperatures retard them.

P&L PASTE FILLER

Silex type in paste form. Seals pores of open grain woods. Non-absorbent, non-shrinking. Dries hard. Holds out varnish coats. Semi-transparent. Natural and colors. May be used to stain and fill in one operation.

P&L PETROLEUM-EPOXY PAINT BLACK

Air drying finish with excellent adhesion to exterior and interior metal, concrete and other masonry surfaces. Especially designed for surfaces which are submerged or exposed to excessive moisture, such as settling tanks, piping, sluice gates, valves, etc. Available only in Black. Heavy bodied and high in solids to insure filling of poured concrete.

Petroleum-Epoxy Paint Black is a two-package material. The black component must be job mixed with catalyst and allowed to stand one hour (the induction period) before use. After mixing one-half pint of P&L Petroleum-Epoxy Catalyst No. 1136 into one gallon of finish, the mixture has a usable period (pot life) of 6 hours.

Note: Petroleum-Epoxy Paint Black attains its ultimate hardness by curing -- a chemical reaction which is triggered by mixing a catalyst into the finish. Like all chemical reactions, temperature and the proper measurement of ingredients are vital to obtain a coating which will give satisfactory durability and performance. High temperatures accelerate the reaction, while low temperatures slow the curing action of the film. The induction period of one hour and pot life of 6 hours apply to materials at room temperatures (70° to 77°F.) and to room temperature storage conditions. Higher temperatures will accelerate these changes; lower temperatures retard them.

PRIMAFIL

Heavy bodied primer and filler for porous and coarse masonry surfaces, concrete block, precast and formed concrete. Primes and fills in one operation. Degree of filling and texture controlled by variation in spreading rate. Excellent adhesion to substrate. Provides good foundation with adequate "hold out" for top coats. Tint to approximate color of finish coat. Do NOT use Primafil over exterior surfaces that have been waterproofed or treated with a silicone type water repellent.

P&L RED LEAD-LEAD CHROMATE PRIMER NO. 30503

A red lead-lead chromate primer suitable for use as a shop coat or field coat on metal surfaces. It gives good protection to metal and can be recoated with either oil or alkyd top coats. Also suitable for use as a finish coat on truss and plate work under digester covers in Water Pollution Control Plants.

P&L SAFETY SPRAY ALUMINUM NO. 34707

A ready-mixed aluminum paint for exterior and interior masonry, metal and wood surfaces. Requires no mixing of powder and liquid from separate containers. Just stir and use. Apply by spray only. Dry fall-out type. Overspray traveling over 12 feet does not adhere and can be swept up or dusted free from surface.

TONETIC WOOD STAIN

A line of new type penetrating stains requiring no shellac sealer. Use on hard or soft wood trim, paneling, cabinetry, floors. Develops color of fine woods, enhances appearance of soft woods. Depth of color may be varied by thinning or wiping. Fast drying will not raise grain. Apply with brush. Finish with P&L "38" Pale Trim Varnish, P&L Varmor or P&L Vitralite UVA Spar Varnish.

VAPEX MASONRY PAINT

For exterior use above grade on walls of concrete, brick, masonry blocks and asbestos-cement; also on interior below grade wall surfaces of same materials. Flat finish. Excellent color retention. May be used on new concrete, 30 days old. Smooth flowing, very fast drying, breathing film. Apply with brush, roller or spray.

VAPEX WALL PRIMER

Use on interior walls and ceilings of smooth, sand-finished and textured plaster, gypsum wallboard, concrete, brick, masonry blocks, asbestos-cement, wood pulp and pressed wood board. Also for acoustical tile and canvas covered surfaces. May be applied to "green" plaster. Flat finish. Excellent alkali resistance, sealing qualities. Smooth flowing, fast drying, hard finish. Brush, roller or spray application. White only. Tint to approximate shade of finish coats. Do not use on reinforced concrete where rusting may occur, or on wood or metal.

VARMOR

A durable urethane clear finish in Gloss and Satin. Use on exterior or interior wood floors, paneling, doors, siding and trim. Exceptionally hard, clear finish resistant to weathering, food acids, detergents, salt or fresh water. Highly elastic film. Very fast drying. Apply with brush, roller or spray. Both Gloss and Satin recommended for exterior use.

VARMOR FILLER — SEALER

A combination filler and sealer for use on open grain woods under Varmor Gloss and Satin. Fills and seals in one operation. Non-wiping. Dries hard. Sands easily.

P&L VINYL RESISTANT COATINGS

Air drying finishes with good exterior durability for use on metal subject to excessive moisture, including handrails, motors, piping, tanks, etc.

P&L Vinyl Resistant Coatings are solvent-thinned vinyl chloride-vinyl acetate copolymer finishes. They are not vinyl emulsion paints, like Vapex Wall Primer. Solvent-thinned vinyl finishes behave like lacquer and have inherently poor brushing qualities. Accordingly, P&L Vinyl Resistant Coatings are recommended for spray application only. They have good acid resistance, but are sensitive to alkalis

and common solvents like gasoline and xylol. They have been most successfully used where corrosion is largely the result of acid fumes. They may be used on either interior or exterior work, and they are flexible enough for use on wood.

P&L Vinyl Resistant Coatings are being recommended only on the outside of iron and steel that are not submerged, but are subject to excessive moisture. This condition may exist over tanks containing liquids. They are especially suitable for use on handrails where good exterior color retention and durability are required.

VITRALITE ENAMEL EGGSHELL

Alkyd base, eggshell luster. For interior woodwork, wood and metal trim. Also walls and ceilings of plaster, concrete, brick, masonry blocks and hard surface wallboards. Exceptionally smooth, durable, fume resistant finish. Excellent color retention. Moderate drying time. Excellent finish for convectors, grilles, window sills. Matching colors available in New Lyt-all Flowing Flat and Lyt-all Stippling Eggshell.

VITRALITE ENAMEL UNDERCOATING

Base coat for Vitralite Enamel after use of P&L Interior Trim Primer. Use on interior wood and metal. Flat finish. Uniformly smooth, hard surface, sands perfectly. Excellent hiding, leveling properties. Fast drying, resists sagging. White only. Tint to approximate shade of finish coat.

VITRALITE UVA SPAR VARNISH

A high gloss exterior varnish for use on wood surfaces. Contains an ultraviolet absorber to produce maximum exterior durability. Ultraviolet absorbers are organic chemicals which absorb that part of the sun's radiation that causes degradation of clear finishes. The absorber acts somewhat like pigment in paint and enamel films; it soaks up the destructive radiation. In the process, the absorber itself is ultimately destroyed. Very elastic film. Excellent water resistance. Especially suitable for use on exterior wood doors, siding, trim, and other wood surfaces. Apply with brush, roller or spray.

VITRA-TILE BLOCK FILLER

Heavy bodied primer and filler for porous and coarse interior masonry surfaces. Primes and fills in one operation. Excellent adhesion to substrate. Provides good foundation for the Vitra-Tile system. Use on untreated surfaces only. White only. Do not tint. Maximum filling obtained when applied by brush.

VITRA-TILE EPOXY

A "high-build" thermosetting, pigmented 100% epoxy plastic which cures at room temperature when catalyzed with Vitra-Tile Epoxy Activator. The catalyzed material has a high non-volatile, thus producing a heavy duty finish. Its hard non-porous finish is resistant to chemicals, solvents, cleaners and hard wear. Its ruggedness, beauty and easy maintenance recommend it for areas where maximum durability is required.

Vitra-Tile Epoxy is recommended particularly for walls constructed of concrete block and aggregate block. For unusually porous block BRUSH the first coat of Vitra-Tile Block Filler and then apply two coats of Vitra-Tile Epoxy. Vitra-Tile Epoxy may be used on walls of concrete, brick, asbestos-cement, plaster, rigid metal and wood. It has an excellent fire retardant rating. Its resistance to nuclear radiation makes it an ideal coating for use in nuclear research centers and atomic energy installations.

Vitra-Tile Epoxy produces a gloss finish. Available in a wide range of especially selected P&L Calibrated Colors. Colorful spatter or veiling effects can also be achieved.

Note: See page 31 for Technical Data on Vitra-Tile Epoxy.

VITRA-TILE WALL PRIMER

Use on interior walls and ceilings of smooth, sand-finished and textured plaster, gypsum wallboard, concrete, brick and pressed wood board. Flat finish. Excellent alkali resistance, sealing qualities. Smooth flowing, fast drying hard finish. Brush, roller, or spray application. White only. Do not tint. Do not use on reinforced concrete where rusting may occur, or on wood or metal.

"38" PALE TRIM VARNISH

Interior varnish in Gloss, Satin and Dull. Use on interior wood paneling, doors, trim and semi-exposed areas, such as window sills. Transparent, almost water clear finish for dark, light or blond effects. Tough, durable, elastic film not easily marred. Resistant to moisture, sunlight. Smooth flowing, easy brushing. Quick drying. Color permanent. Satin and Dull will not burnish or "gloss up" with handling. Gloss, Satin and Dull may be intermixed for varying lusters.

"61" FLOOR & PORCH ENAMEL

A gloss enamel for use on interior or exterior concrete, metal, and wood floors, catwalks, stairs and runways. Resists foot traffic, abrasion, water, grease and oil. Withstands frequent maintenance washing. Smooth flowing and fast drying. Available in a range of colors.

PRODUCT DATA

VITRA-TILE EPOXY *Technical Data*

Property - Physical	Test or Method	Result
Hardness	Pencil	Very Good 2H
Hardness	Sward	20% Compared to Glass
Adhesion	Recommended Specifications	Excellent
Elongation	ASTM D522-60	10%
Abrasion Resistance	Taber CS17 1000 gms. load	Good 88mg. loss/1000 cycles
Washability	Fed. Std. 141 6141	Excellent, Surpasses Requirements
Washability	Fed Std.. 141 6143	Excellent, Surpasses Requirements
Washability	Fed. TT-P-29	Excellent, Surpasses Requirements
Fadeometer	Atlas Weatherometer (Dry)	Unaffected after 500 hours

Fire Retardance

Tunnel Test A.S.T.M. E84-61; NFPA No. 255

Test Conducted By An Approved Testing Laboratory

Substrate	Specification	System	Flame Spread	Fuel Contributed	Smoke Density
Asbestos Cement Board	Not Coated	– – –	0	0	0
Red Oak Flooring	Not Coated	– – –	100	100	100
Concrete Aggregate Block	1st Coat – Vitra-Tile Block Filler 2nd Coat – Vitra-Tile Epoxy (Note a)	S,MM	3	0	0
	1st & 2nd Coats – Vitra-Tile Epoxy	T,NN	5	0	5

Note (a) For non-porous masonry surfaces such as brick, concrete, and plaster, replace Vitra-Tile Block Filler with Vitra-Tile Wall Primer (systems, U, OO).

Resistance To Radioactivity & Nuclear (Electron) Radiation

Property	Test	Result
Radiation Resistance	1×10^9 Rads (8.5×10^7 Rads/Hr.)	Unaffected From Normal Cell Dosage
Decontamination of Radioactivity	Yttrium 90 Sol'n. Decontaminated with Alconox	Excellent 96 – 99%
Radiation Plus Decontamination	1×10^9 Rads Plus Yttrium 90 Sol'n. Decontaminated With Alconox	Excellent 96 – 99%

Note – For resistance to acids, alkalis, gases, salts, solvents and other miscellaneous materials, see Resistance Charts on pages 38, 39.

PRIMERS

Pratt & Lambert Primer	Type	Surface	Recommended Film Thickness Mils – Dry	Spreading Rate Sq. Ft. Per U.S. Gal.	Application			Drying	
					B	R	S	Dust Free Hrs.	Recoat Hrs.
Chlorinated Rubber Primer	Chlorinated Rubber	Masonry Metal (I)	1.0	400	* 1		* 12	1	24
Effecto Primer	Aklyd	Metal Wood (I, E)	1.0	500	* 1		* 6	1	4
House Paint 305 Exterior Primer White	Oil	Wood (E)	2.5	450	* 1		* 3	3	3 Days
Interior Trim Primer	Oil	Metal Wood (I)	1.25	700	* 1		* 3	4	15
Lyt-all Double Duty Primer	Oil	Plaster (I)	1.0	800	* 1	* 1	* 7	4	15
No. 25 Zinc Chromate Primer	Alkyd	Metal (I, E)	1.0	600	* 1		* 5	1	8
Noxide 96 One Day Primer Red	Oil	Metal (I, E)	0.75	1000	* 1		* 3	2½	18
Palgard Metal Primer	Epoxy	Metal	2.0	425 (Mixed Gal.)	* 1	* 1	* 1	3	16
Primafil	Latex (Emulsion)	Masonry (I, E)	13.0	50	* 1	* 9	* 11	½	4
Red Lead-Lead Chromate Primer No. 30503	Alkyd	Metal (I, E)	1.0	750	* 1		* 6	7	16
Vapex Wall Primer	Latex (Emulsion)	Masonry Plaster Wallboard (I)	0.75	500	* 1	* 1	* 10	½	2
Vinyl Primer No. 104-132	Vinyl (Solution)	Metal (I, E)	0.75	325			* 8	¼	4
Vitra-Tile Block Filler	Latex (Emulsion)	Masonry (I)	13.0	50	* 1	* 9		½	4
Vitra-Tile Wall Primer	Latex (Emulsion)	Masonry Plaster (I)	0.75	500	* 1	* 1	* 10	½	4

NOTE: *Under Application – B-Brush; R-Roll; S-Spray * – Method of Application*
Numbers 1 through 12 indicate Recommended Reduction for Application
See Table On Page 35.
Under Spreading Rate – Canadian gallon is one-fifth larger than U.S. gallon.
Under Surface – E-Exterior; I-Interior.

RESISTANT COATINGS

Pratt & Lambert Product	Type	Surface	Recommended Film Thickness Mils – Dry	Spreading Rate Sq. Ft. Per U.S. Gal.	Application			Drying	
					B	R	S	Dust Free Hrs.	Recoat Hrs.
Chlorinated Rubber Finish	Chlorinated Rubber	Masonry Metal (I)	1.0	400	* 1		* 12	1	24
Heat Resistant Aluminum No. 7227	Phenolic	Metal (I, E)	0.5	800	* 1		* 1	¼	8
High Heat Resistant Aluminum No. 31483	Silicone	Metal (I, E)	0.5	800	* 1		* 1	½	24
Noxide 105 Aluminum	Oleo-resinous	Masonry Metal Wood (I, E)	0.75	800	* 1		* 1	2½	2 Days
Palgard	Epoxy	Masonry Metal Plaster Wood (I,E)	2.0	425 (Mixed Gal.)	* 1	* 1	* 1	3	16
Petroleum-Epoxy Black	Epoxy	Masonry Metal (I.E)	3.0	370	* 1		* 1	5	16
Safety Spray Aluminum No. 34707	Alkyd	Masonry Metal Wood (I.E)	0.5	800			* 1	¼	2
Vinyl Resistant Coating	Vinyl (Solution)	Metal (I, E)	0.75	325			* 8	¼	4
Vitra-Tile Epoxy	Epoxy	Masonry Metal Plaster Wood (I)	8.0	150	*	*	*	4	16

NOTE: *Under Application – B-Brush; R-Roll; S-Spray * – Method of Application*
Numbers 1 through 12 indicate Recommended Reduction For Application
See Table On Page 35.
Under Spreading Rate – Canadian gallon is one-fifth larger than U.S. gallon.
Under Surface – E-Exterior; I-Interior.

Pratt & Lambert Product	Type	Surface	Recommended Film Thickness Mils – Dry	Spreading Rate Sq. Ft. Per U.S. Gal.	Application			Drying	
					B	R	S	Dust Free Hrs.	Recoat Hrs.
Effecto Enamel	Alkyd	Metal Wood (I, E)	1.0	800	*1		*6	3	4
House Paint – White and Tints	Oil	Metal Wood (E)	2.25	550	*1		*3	10	3 Days
House Paint – Deep Colors	Alkyd	Metal Wood (E)	1.0	800	*1		*3	6	2 Days
Lyt-all Stippling Eggshell	Alkyd	Metal Plaster Wallboard (I)	2.0	450	*1	*1		8	16
New Lyt-all Flowing Flat	Alkyd	Metal Plaster Wallboard (I)	1.0	600	*1	*1	*7	2	16
Noxide 98 Smokestack Black	Asphaltum	Metal (I, E)	0.5	1000	*1		*3	2	8
Paste Fillers	Oleo-resinous	Wood (I)	2.0	500	*4			1	4
"61" Floor & Porch Enamel	Alkyd	Masonry Metal Wood (I, E)	0.75	700	*1	*1	*6	2	7
"38" Pale Trim Gloss	Alkyd	Wood (I)	0.75	700	*1		*1	1	6
"38" Pale Trim Satin	Alkyd	Wood (I)	0.50	700	*1		*1	1	6
"38" Pale Trim Dull	Alkyd	Wood (I)	0.50	700	*1		*1	1	6
Tonetic Wood Satin	Alkyd	Wood (I)	0.35 Unwiped	500	*1			½	4
Vapex Masonry Paint	Latex (Emulsion)	Masonry (I, E)	1.0	250	*1	*1	*1	½	2

(MORE)

Pratt & Lambert Product	Type	Surface	Recommended Film Thickness Mils – Dry	Spreading Rate Sq. Ft. Per U. S. Gal.	Application				Drying	
					A	B	R	S	Dust Free Hrs.	Recoat Hrs.
Varmor Filler–Sealer	Oleo-resinous	Wood (I,E)	1.0	600	* 1	* 1			3	6
Varmor Gloss	Urethane	Wood (I,E)	0.75	700		* 1	* 1	* 2	¾	4½
Varmor Satin	Urethane	Wood (I,E)	0.50	700		* 1	* 1	* 2	¾	4½
Vitralite Enamel Eggshell	Alkyd	Metal Plaster Wallboard Wood (I)	1.0	600		* 1	* 1	* 7	4	15
Vitralite Undercoating	Alkyd	Metal Wood (I)	1.0	600		* 1	* 1	* 7	4	15
Vitralite UVA Spar Varnish	Phenolic	Wood (E)	0.75	700		* 1	* 1	* 1	2	12

NOTE: *Under Application – A-Applicator; B-Brush; R-Roll; S-Spray * – Method of Application Numbers 1 through 12 indicate Recommended Reduction For Application See Table Below.*
Under Spreading Rate – Canadian gallon is one-fifth larger than U.S. gallon.
Under Surface – E-Exterior; I-Interior.

RECOMMENDED REDUCTION FOR APPLICATION												
Thin Each Gallon With	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
	None											
Mineral Spirits		Half Pint	One Pint	Half Gal.								
Duosol					One Pint							Half Gal.
Duosol or Mineral Spirits						One Pint						
Exode							† One Pint					
P&L No. 1571								One Quart				
Water									Half Pint	One Pint	One Quart	

† *Mineral Spirits can replace Exode Reducer for spraying if odorless feature is not needed during application.*

RESISTANCE CHARTS

RESISTANT COATINGS

For most purposes, conventional alkyd, oil base or oleoresinous coatings provide adequate protection to surfaces upon which they are applied. However, unusual environments are found in chemical and other plants which require special coatings that are resistant to specific acids, alkalis, gases, salts, solvents or other miscellaneous materials. To help in the selection of the proper coating to be used, in these unusual environments, resistance charts have been prepared on the following two pages. The products included in the charts are as follows:

Type	Product
ALKYD	Effecto Enamel
CHLORINATED RUBBER	Chlorinated Rubber Finish
EPOXY	Palgard
EPOXY(HIGH-BUILD)	Vitra-Tile Epoxy
VINYL	Vinyl Resistant Coating

Exposure Methods and Systems

The recommendations are based on coating autobody steel panels with the following systems, and dried for 5 days at a constant temperature of 77°F. and relative humidity of 50% before exposure. All coats were applied by spray at the recommended spreading rate and film thickness for each product. The following specifications were used for the products tested:

ALKYD – Effecto Enamel

1 coat – Pratt & Lambert Noxide One Day Primer 96 Red
2 coats – Pratt & Lambert Effecto Enamel

CHLORINATED RUBBER
Chlorinated Rubber Finish

1 coat – Pratt & Lambert Chlorinated Rubber Red Lead Primer
2 coats – Pratt & Lambert Chlorinated Rubber Finish

EPOXY – Palgard

1 coat – Pratt & Lambert Palgard Metal Primer
2 coats – Pratt & Lambert Palgard

EPOXY (HIGH-BUILD) – Vitra-Tile Epoxy

2 coats – Pratt & Lambert Vitra-Tile Epoxy

VINYL – Vinyl Resistant Coating

1 coat – Pratt & Lambert No. 46 Metal Pretreatment
1 coat – Pratt & Lambert Vinyl Primer No. 104-132
2 coats – Pratt & Lambert Vinyl Resistant Coating

Except for resistance to gas, heat, and boiling water, all exposures were run for 30 days, or until failure occurred. Gas exposures were conducted for a period of 24 hours in an environment of concentrated, moist gas. Dry heat exposures were run for one hour at each temperature. For temperatures above 250°F., use heat resistant aluminum (System G or H). Boiling water resistance was conducted for ten days.

Each system is rated for its resistance to chemicals for ★– immersion service, ● – limited service (occasional spillage, splashes or fumes only), and ☆-maximum recorded temperature of exposure. The lack of a symbol in the appropriate space indicates that the system is not recommended. Any coating rated for immersion service is also recommended for exposure to spillage, splashes or fumes.

WHERE MAXIMUM RESISTANCE IS REQUIRED, USE WHITE WITHOUT TINTING OR USE READY-MIXED COLORS.

Summary of Chart

No single coating will satisfactorily resist all environments. Select the coating for the specific intended exposure. In general, the catalyzed epoxy coatings have the best alkali, solvent, and water resistance. The vinyl coating has the best general acid resistance and very good water resistance. Fairly good acid and alkali resistance is exhibited by the chlorinated rubber finish. The alkyd finish has only moderate resistance to acids and salts, and has been included primarily as a standard of comparison. Other properties, such as exterior durability, recommended substrates, and method of application, may be found in the product description or in other tables in the manual.

RESISTANCE CHART

ACIDS	Effecto Enamel (Alkyd)	Palgard (Epoxy)	Vitra-Tile Epoxy	Vinyl Resistant Coating	Chlorinated Rubber Finish
Acetic, 5%				●	●
Citric, 10%	●	★	★	★	★
Hydrochloric, 10%	●	●	●	★	●
Hydrofluosilicic, 23%	●	★	★	★	●
Lactic, 5%	●	●		★	●
Lactic, 85%	●		●	★	★
Nitric, 10%		★	●	●	●
Nitric, Conc.					
Phosphoric, 10%		●		●	●
Phosphoric, 85%		●		●	●
Sulfuric, 10%		●	●	●	●
Sulfuric, 38%		●		●	
Sulfuric, Conc.					
ALKALIS					
Ammonium Hydroxide, 10%		★	★	★	●
Potassium Hydroxide, 10%		★	★		●
Sodium Hydroxide, 10%		★	★		●
GAS (Concentrated & Moist)					
Ammonia		★	★	★	★
Carbon Dioxide	★	★	★	★	★
Chlorine	★	★	★	★	
Hydrogen Sulfide	★	★	★	★	★
Sulfur Dioxide	★	★	★	★	★
SALTS					
Alum, 10%	●	★	★	★	●
Copper Sulfate, 10%	●	●	★	●	
SodiumChloride, 3.2%	●	★	★	★	●
Sodium Chloride, Conc.	●	★	★	★	●
Trisodium Phosphate, 1%		★	★	★	★

KEY ★ —***IMMERSION SERVICE***

● —***LIMITED SERVICE*** (*occasional spillage, splashes or fumes only*)

RESISTANCE CHART

SOLVENTS	Effecto Enamel (Alkyd)	Palgard (Epoxy)	Vitra-Tile Epoxy	Vinyl Resistant Coating	Chlorinated Rubber Finish
Acetone		●	●		
Carbon Tetrachloride		★	●	●	
Denatured Alcohol		★	●	●	●
Gasoline, Regular (Leaded)		★	★		
JP-4 Jet Fuel	★	★	★	★	●
Lacquer Thinner					
Methanol		●	●		●
Methyl Isobutyl Ketone		●	●		
Mineral Spirits	●	★	★	★	●
Xylol		★	●		
MISCELLANEOUS					
Bleach, Clorox®, 10%		●	●		
Detergent, biodegradable, 1%		★	★	★	★
Detergent, Tide®, 1%		★	★	★	★
Formaldehyde, 37%	●	★	★	★	★
Hydrogen Peroxide, 3%		★	●	★	★
Lubricating Oil, SAE 10	★	★	★	★	●
Skydrol 500®		●	★		
Sugar, saturated	★	★	★	★	★
Water, boiling, tap		★	★		
Water, distilled	●	★	★	★	★
Water, tap	●	★	★	★	●
HEAT					
150° F.	☆				
200° F.			☆		
250° F.		☆		☆	☆

KEY ★ —*IMMERSION SERVICE*

● —*LIMITED SERVICE (occasional spillage, splashes or fumes only)*

☆ —*Maximum recommended temperature of exposure.*

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